

AMENDMENT

In the Specification:

Please replace paragraph [0057] beginning on page 21 with the following rewritten paragraph:

[0057] In one embodiment, the transcription factor comprises a zinc finger motif. As used herein, a “zinc finger motif” refers to a repeating motif that permits a region of a protein to fold around a central Zn^{2+} ion. In one embodiment, the zinc finger motif comprises a C2H2 motif. As used herein, a “C2H2 motif” refers to the sequence of the repeating unit within the zinc finger, where the sequence is (Tyr/Phe) X Cys X₂₋₄ Cys X₃ (Phe/Tyr) X₅ Leu X₂ His X₃₋₄ His (SEQ ID NO:1), where X is any amino acid. See MOLECULAR CELL BIOLOGY 449. In another embodiment, the zinc finger motif comprises a C4 motif. As used herein, a “C4 motif” refers to the sequence of the repeating unit within the zinc finger, where the sequence is Cys X₂ Cys X₁₃ Cys X₂ Cys X₁₄₋₁₅ Cys X₅ Cys X₉ Cys X₂ Cys (SEQ ID NO:2), where X is any amino acid. See MOLECULAR CELL BIOLOGY 449. Exemplary zinc finger proteins include, but are not limited to members of the KLF, Sp1, nuclear hormone receptor, and GATA protein families. In one embodiment, the transcription factor comprising a zinc finger motif includes, but is not limited to GATA-1 (erythroid), Sp1 (ubiquitous), EKLF (erythroid), FKLf (fetal), BKLF (basic), GKLF (gut), and LKLF (lung). In another specific embodiment, the zinc finger motif protein is a zinc finger motif-containing nuclear hormone receptors. Such receptors include, but are not limited to androgen, estrogen, thyroid, progesterone, and glucocorticoid receptors. In one embodiment, the zinc finger-containing nuclear hormone receptor is RAR and RXR. In a specific embodiment, the zinc finger-containing protein is Wilm’s tumor suppressor protein (*i.e.*, WT1) implicated in kidney differentiation and tumorigenesis. WT1 strongly regulates amphiregulin, a member of the epidermal growth factor family, among other genes. In a specific embodiment, the zinc finger proteins are the BRCA1 and BRCA2 proteins implicated in hereditary breast and ovarian cancers. In a specific embodiment, the zinc finger protein is KRAB repressor domain-containing proteins that are involved in epigenetic silencing of genes. In a specific embodiment, the zinc finger protein contain the BTB/POZ domain and includes, but is not

limited to the PLZF (promyelocytic leukemia zinc finger) protein, which is fused to RAR α (retinoic acid receptor alpha) in a subset of acute promyelocytic leukemias (APLs) and acts as a potent oncogene.

Please replace paragraph [0058] beginning on page 22 with the following rewritten paragraph:

[0058] In another embodiment, the transcription factor comprises a leucine zipper motif. As used herein, a “leucine zipper motif” refers to a sequence within the DNA binding domain containing leucine residues present with regular, seven amino acid periodicity at every second turn along the hydrophobic face of an α -helix, where the amino acid sequence is [KR]-x(1,3)-[RKSAQ]-N-x(2)-[SAQ](2)-x-[RKTAENQ]-x-R-x-[RK] (SEQ ID NO:3). Sauer, R.T. *Nature* 347: 514-15 (1990). In one embodiment, the transcription factor containing a leucine zipper is c-fos, c-jun, or C/EBP α . In another embodiment, the transcription factor is phosphorylated CREB.